



NEWSLINE

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ALI CARRIGAN/NEWSLINE

During the three-day conference, judges from around the country were asked to culture bacteria, taken from their own mouths or nasal passages. The exercise was a way to educate justices on various research concepts for bacteria.

Top judges court Lab for advice

By Lynda Seaver

NEWSLINE STAFF WRITER

Approximately 100 of the country's highest ranking judges gathered at the Lab last week for extensive overviews on the science of bioterrorism.

The judges, from state supreme courts, state and federal courts of appeal, district and superior courts, spent Thursday, Friday and Saturday listening to presentations ranging from overviews on various pathogens, methods of biological agent detection and the effects of "agro-terrorism" on the nation's farmlands, to how to prepare for and respond to an attack within their own courtrooms. The presentations came

from scientific experts across the country as well as from within the Lab's Biology and Biotechnology Research Program.

"This is an opportunity for us to get sound scientific information that we can use to make



Annice Wagner

See **BIOTERRORISM**, page 8

Tarter, UC Regents appoint Glenn Mara as AD for Engineering

Glenn Mara, a long-term employee with more than 30 years of engineering, national security and defense program experience, has been selected as the Lab's new associate director for Engineering.

The appointment was made by Director Bruce Tarter and confirmed by the UC Regents and the National Nuclear Security Administration (NNSA).

"I am extremely pleased Glenn has accepted this position," Tarter said. "His expertise as a scientist and engineer, and his demonstrated leadership ability are well-known at this Lab. He will be a wonderful addition to our senior management team."

In his new position, Mara will lead more than 2,200 engineers, designers, technicians, machinists and other personnel in Engineering. The directorate is responsible for the design, fabrication and operation of most of the Lab's unique experimental facilities. This engineering work often involves the simultaneous integration of multiple technologies — from large-scale, complex applied physics systems to micro-scale engineering.

"I am honored to have been selected," Mara said. "I have the highest respect for the talent in this organization and fully appreciate the critical role Engineering plays at this Laboratory. Our programmatic partnerships and our Engineering research and development projects represent a challenging and exciting scope of work, and I look forward to helping our directorate meet the Laboratory's challenges for the future."

Following his announcement of the new



MICHAEL ANTHONY/TID

Glenn Mara

See **AD**, page 8

Lab's expertise helps keep BART's training modules on track

By Elizabeth Campos Rajs

NEWSLINE STAFF WRITER

With the successful development of computer-based training modules for its train operators, BART hopes to now move forward with developing or purchasing a full-scale simulator, officials said at a ceremony in Dublin last week.

The Train Operator Training Simulator project is a partnership between BART, the Lab, Chabot Las Positas Community College

District and the Economic Development Alliance for Business (EDAB) to develop virtual reality training for BART train operators.

"We're extremely pleased with the progress we've made so far," said Pete Snyder, BART board vice president. "A simulator would bring future trainees into a virtual world of actual operation. Simulating the operation of a train and all of the functions that must be performed in any given situation will accelerate the trainee's experience and comfort level for actual operation."

More than 50 people, including representa-

tives from BART, LLNL, the college district, EDAB and Rep. Ellen Tauscher's office, were on hand at Friday's ceremony to celebrate the partnership's second milestone.

The first phase was a comprehensive assessment to determine what facets of the current training program should be simulated. The second phase was to develop computer modules with specially designed software, which concentrated on a few complex areas of an operator's typical training cycle.

See **BART**, page 8



1955: Tory II-C takes off

— Page 3



Lab provides SOS for students

— Page 4



Scholarships for sheepskins

— Page 5



LAB COMMUNITY NEWS

Weekly Calendar

Technical Meeting Calendar, page 4

Saturday
26

There will be a **scheduled power outage** from 7 a.m. to 3:30 p.m. in the following locations: Bldgs. 181, 182, 194, 194A, 195 and 198; and Trailers 1826, 1830, 1877 and 2925. Contact: Mark Cardoza at 3-0490

Tuesday
29

The **Eldercare Support Group**, sponsored by Health Services, will meet at noon in Trailer 6575 (between the Visitors Center and the Credit Union). The agenda will include informal discussions of whatever you need to talk about. Sandra Ja'chim, a nurse practitioner from Health Services, will also be on hand. Everyone is invited whether presently caring for parents or not. Family members of Lab employees and contract workers are welcome to attend. Badges are not required and reservations are not necessary. Contact: Marnette Yeager, 2-1217.

Wednesday
30

Diana Louie, a U.S. Treasury Department representative, will give a talk at the Lab on the benefits of **U.S. Savings Bonds, Series EE**, from noon to 1:30 p.m. in Bldg. 571, Conference Room 2301. Series EE are available to Lab employees by payroll deduction. They are Treasury securities that earn guaranteed interest at market-based rates for up to 30 years. The purchase price of a bond is 50 percent of its face amount. Contact: Benefits Office, 2-9955.

Thursday
31

An **Al-Anon group**, a 12-step program for family members or friends of alcoholics, has been set up on site. The group will meet on Thursdays at noon in Trailer 3520, room 1174 (Sycamore Room). Contact: Jane, 4-4689, or Mike, 3-4827.

Up
Coming

The Amador Theater will host an afternoon of entertainment for Vietnamese, classical, and jazz music lovers at the **Children's Benefit Concert** on Feb. 24, at 2 p.m. at the Amador Theater in Pleasanton. All proceeds will go toward children in need in Vietnam. Tickets are \$7 and will be available at the Lions Ticket Office & Visitor Center, Pleasanton, Camerata Music in Dublin, Goodenough Books in Livermore, House of Woodwinds in San Ramon and at the door. Contact: 925-275-9250.

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The **LLNL Retirees Travel Slide Group** will meet at 2 p.m. on Feb. 26, at the Livermore Library meeting room. The program will feature Richard Hasbrouck's slides of England, Scotland and Wales.

Please send items for the calendar to Elizabeth Campos Rajs at L-797 or rajs1@llnl.gov.

BRIEFLY

Lab employee's photos of Macworld Expo available

David Price of NAI attended the Macworld Expo 2002 in San Francisco earlier this month as a media representative providing photo coverage and interviewing Macintosh luminaries for a live Webcast of the event.

Price took photos of Steve Jobs' keynote address as well as activities on the Expo floor. Some 50-60 of his photos are posted in the photo galleries at: <http://www.mymac.com/mwsf02/>

In addition to taking photos, Price served as one of the hosts of the live Webcast "World Without Borders" throughout the expo, interviewing Sandee Cohen, Bob LeVitus (Dr. Mac), Tom Negrino, Adam Engst, Maria Langer and others.

Transcripts of some of these Webcasts are available at: <http://worldwithoutborders.com>

Deadline for selecting alternate username is Feb. 1

On Oct. 26, IA standard IA-1601 declared each person's official username as her/his Official ID (e.g., michels3@llnl.gov), and created a new identity for each person, the alternate username. This standard can be read at <http://ia.llnl.gov/standards/ia1601/ia1601.html>.

The alternate username is intended to accommodate the limitations of legacy systems that are unable to accept usernames longer than eight characters. The use of the alternate username identity is being implemented across the Laboratory in two phases:

Phase One: On Nov. 1, each person's alternate username was preset by LLNL to match either the official username or e-mail alias if it does not exceed eight characters; otherwise it was preset to blanks. Each person may select a new alternate username up until Feb. 1, at which time it will become permanent and can never be reused. This time limit will not apply to alternate usernames that were preset to blanks.

The URL for selecting an alternate username is: <https://www-oln.llnl.gov/autoreg/cgi-bin/autoreg.cgi>. Note: You will need an Official ID and Personal Access Code to select a new alternate username. Questions regarding the selection of an alternate username can be directed to the LC Hotline at 2-4531 (computing@llnl.gov).

Phase Two: After Feb. 1, non-blank alternate usernames can only be changed if a change in a person's legal name affects it. Alternate usernames will be available via PH as LLNL-only information. New hires will have their alternate usernames set to blanks until they select permanent ones. Selection of an alternate username will be a prerequisite for obtaining an account on any system that uses this identity.

Lab to host key members of ASCI Alliance Flash Center

The Laboratory will host an all-day visit of key team members of the University of Chicago ASCI Alliance, the "Flash Center" on Monday, Feb. 4, in the Bldg. 123 auditorium and conference room A, as well as the Bldg. 125 Jade room.

This project is one the five ASCI 'level one' academic alliances, focused on computational grand challenges and collaboration with LLNL, LANL and Sandia.

The Flash Center is focused on developing a comprehensive set of computational models and deeper understanding of thermonuclear flashes on compact astrophysical bodies. These include neutron star X-ray bursts, novae, and type Ia supernovae.

The oral talks, posters and discussion sessions will cover the entire project including astrophysics, hydrodynamics, magneto-hydrodynamics, turbulent combustion, validation experiments and computer science. The latter includes work on MPI, architectures and parallel computing diagnostics, numerical methods and visualization.

IN MEMORIAM

Harry Morrison

Harry Lee Morrison, a former Lab physicist and associate dean at UC Berkeley, died Jan. 21 of a heart attack at his Berkeley home. He was 69.

Morrison spent 22 years as a physics professor at the Berkeley campus, retiring in 1994. But he continued to work in the College of Letters & Science as an assistant dean in the undergraduate advising office, a job he held for 11 years.

As the only African American in the physics department, Morrison served as a mentor and guide to minority undergraduate students, many of whom he encouraged to pursue math-based majors.

Before joining UC Berkeley, Morrison helped in the early years of a California-based program called Mathematics, Engineering, Science Achievement, which was conceived as a way of increasing minority college enrollment.

Born in Arlington, Va., in 1932, Morrison received a bachelor's degree and doctorate from Catholic University of America in Washington, D.C. He later served as an assistant professor of physics at the U.S. Air Force Academy and then joined the staff at the Laboratory. In 1972, he took a position in the physics department at UC Berkeley.

A fellow of the American Physical Society, Morrison served on the society's executive council and as a chairman of its Committee on Minorities.

He is survived by his wife, Harriett; daughter Vanessa; brothers Samuel, Paul and Charles; and sister Frances.

Newsline

Newsline is published weekly by the Internal Communications Department, Public Affairs Office, Lawrence Livermore National Laboratory (LLNL), for Laboratory employees and retirees.

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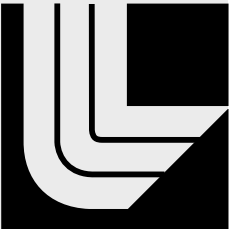
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1952 – 2002

MAKING HISTORY, MAKING A DIFFERENCE



Nuclear propulsion: flying nuclear reactors

In 1955, the Laboratory initiated work on nuclear propulsion and then shifted attention in 1957 to Project Pluto — a nuclear ram-jet engine for low-flying, supersonic cruise missiles that could stay aloft for many hours. The project was a severe technical challenge. Chemists and materials scientists had to devise mass-producible ceramic fuel elements that could meet stressed operating conditions. Testing the reactors required novel remote-handling technologies, as well as systems capable of ramming about a ton of heated air through the reactor each second.

In 1961, Livermore successfully tested the Tory II-A reactor at the Nevada Test Site. Tory II-C, which generated 600 megawatts (about half the power capacity of Hoover Dam), was tested three years later. All six tests of the reactors were conducted without failure; however, the lack of a firm commitment from the military halted the project.

Laboratory expertise in fission energy and the nuclear fuel cycle has continued to find many applications — from the operation of experimental reactors until 1980 to current projects for government and industry. These efforts help to protect public health and safety, and advance the underlying technologies.

This is part of an ongoing feature highlighting various aspects of the Lab’s 50-year history.



The Tory II-C, which generated 600 megawatts, was tested at the Nevada Test Site.

supersonic cruisers

1955 powerful reactors

Around the world

- Deliverable U.S. H-bomb tested at Bikini
- French defeat in Indochina
- Polio vaccine declared safe for use
- George Meany becomes president of newly merged labor organization, the AFL-CIO

Around the nation

- Army–McCarthy hearings take place
- Atomic Energy Act
- Popular songs: “Rock Around the Clock” and “Maybelline”
- Ray Kroc buys hamburger franchise from McDonald brothers; launches empire of

- golden arches
- Disneyland opens in California

Around the Lab

- Herbert F. York is Lab’s director
- Lab nearly doubles its 123 employees in Reactors Program, along with adding to the existing 33 in Magnetic Fusion and 655 in the Nuclear Weapons, Research, Development and Testing Programs

in other

NEWS

Significant events around the world, the nation and at the Lab.



Send us your story

Do you have an interesting story about “life at the Lab?” The 50th Anniversary Committee is gathering human-interest stories from employees, retirees and alums for “Fifty Years of Stories: Life at the Laboratory,” a publication that will celebrate the people and experiences that have shaped Lab life.

Stories will either be included in the publication or posted on the 50th Anniversary Website.

Or, if you know an employee, retiree, or former employee who has an interesting story, we’d like to hear from them, too.

When submitting your story, please include your name, job title, phone number and email address. Stories will be edited for length, grammar and punctuation, and fact-checked as necessary.

Interviewers will be available if you are unable to write your story.

Deadline: Feb. 15. Send your stories to Laurie Powers, L-664, powers12@llnl.gov. You may also submit stories on the Web at http://www.llnl.gov/50th_anniv/story.htm. **Questions?** Call Laurie, (925) 423-9868.

1952... 2002

Last chance for submissions!

Name 50 influential people who work at the Laboratory

Your name (optional): _____ Your ext. _____

Who: _____

Why: _____

Return form to: _____

Newsline

Attn: Lynda Seaver, L-797

Comments: _____



Lawrence Livermore National Laboratory

Making History Making a Difference

1952-2002



NEWS YOU CAN USE

Eagle Nebula lecture launches Science on Saturday

By Elizabeth Campos Rajs

NEWSLINE STAFF WRITER

The Lab will launch its sixth season of Science on Saturday on Feb. 2 with a talk on "Pillars of the Eagle Nebula — Can We 'Make' Celestial Objects Using Lasers?" The lecture will begin at 9:30 a.m. in the Bldg. 123 auditorium.

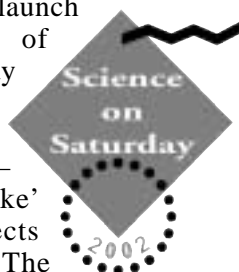
Lab physicists Jave Kane and Bruce Remington, along with science teacher Sarah Palmer of the Tri-Valley Regional Occupational Program, will discuss the dramatic pillars of the Eagle Nebula — one of the clouds of dust and gas in the galaxy out of which stars and planets form — and will demonstrate how lasers might be used in the laboratory to produce miniature pillars.

Science on Saturday is a five-week series of free 90-minute talks geared toward middle and senior high school students. The series, which began in 1996, has proven to be tremendously popular, drawing more than 300 people from throughout the Bay Area to each lecture.

This year's series features Lab researchers talking about their cutting-edge science that is at the forefront of public interest, noted Don Correll, director of the Lab's Science and Technology Education Program.

"We're fortunate to have top-notch scientists working at the Laboratory who are doing work that people are very interested in," Correll said. "This year's lectures focus on cutting-edge research students would see in the science supplements of their daily newspapers."

"What we continue to see is that students and the general public really do want to know



Known as the Pillars of Creation, the gaseous columns that make up the Eagle Nebula reach almost 6 trillion miles high. They will be the subject of the next Science on Saturday presentation.

more about science," Correll added. "The curiosity has always been there, but the challenge has been how to communicate science research in an interesting way. We think we've got a successful approach with this lecture series."

This year's speakers represent a wide range of disciplines, including astrophysics, biotechnology, engineering and planetary physics.

The series is co-sponsored by Livermore Laboratory and the Livermore chapter of Sigma Xi, the Scientific Research Society.

The free lectures, which cover topics from new technologies for treating strokes to state-

of-the-art robotics, will be offered every Saturday, Feb. 2 through March 2, from 9:30-11:15 a.m. All of the talks will be in the Bldg. 123 auditorium and are open to students, their parents or guardians, and teachers. Registration is at the door and seating is available on a first-come, first-served basis, with priority given to students.

For more information on Science on Saturday, check the Website (<http://education.llnl.gov/sos>) or email the Lab's Science and Technology Education Program at education@llnl.gov.

Here is the complete schedule for the 2002 "Science on Saturday" lecture series:

- Feb. 2: "Pillars of the Eagle Nebula — Can We 'Make' Celestial Objects Using Lasers?" LLNL physicists Bruce Remington and Jave Kane, and science teacher Sarah Palmer of the Tri-Valley Regional Occupational Program.

- Feb. 9: "Brain Attack — New Technologies for Treating Strokes," LLNL materials scientist John Marion and biology teacher Kirk Brown of Tracy High School.

- Feb. 16: "Robots — Look Out! We're Surrounded," LLNL electrical engineer Mark Perez, mechanical designer Kathy Fritz and science teacher Jim Bock of the San Joaquin County Office of Education.

- Feb. 23: "Volcanology — Volcanoes In Your Backyard," LLNL research engineer Alan Meyer and science teacher Stan Hitomi of Monte Vista High School in Danville.

- March 2: "How Galaxies Are Formed — Starbursts Forever," LLNL research astronomer Wil van Breugel and science teacher Barry Marson of Tokay High School in Lodi.

Technical Meeting Calendar

Friday
25

INSTITUTE FOR GEOPHYSICS & PLANETARY PHYSICS

"High Redshift Quasars as a Probe of the Early Universe," by Robert Becker, LLNL. Noon,

Bldg. 319, room 205 (badge required). Contacts: Adam Stanford, 3-6013, or Josie Morgado, 4-5201.

MATERIALS SCIENCE & TECHNOLOGY

"Experiments to Validate Multiscale Modeling," by Anthony D. Rollett, Carnegie Mellon University. 3:30 p.m., Bldg. 235, room 1090 (uncleared area). Coffee and cookies will be served at 3:20 p.m. Contact: Thomas E. Felter, 2-8012.

Monday
28

UC DAVIS, DEPARTMENT OF APPLIED SCIENCE

"Single Molecule Optical Spectroscopy and Microscopy

at LLNL," by Stephen M. Lane, LLNL. 4 p.m., Bldg. 661 (Hertz Hall), room 7 (open area). Refreshments served at 3:30 p.m. for a "meet the speaker" session before seminar and at 5 p.m. after the seminar. Contact: Estelle Miller, 2-9787.

CHEMISTRY & MATERIALS SCIENCE

"Capillarity in Metal Casting Mold Filling," by Jon L. Hilden, Purdue University 10 a.m., Bldg. 235, gold room (uncleared area). Contact: Geoff Campbell, 3-8276, or Roberta Marino, 3-7865.

Tuesday
29

LIVERMORE COMPUTING

"Towards Multi-Component 'Systems' Flow Simulation of Power and Propulsion Gas-Turbine Engines," by Roger L. Davis, UC

Davis. 10:30 a.m., Bldg. 451, room 1025 (uncleared area). Contacts: Barbara Herron, 2-4346, or Jean Shuler, 3-1909.

Wednesday
30

PHYSICS & ADVANCED TECHNOLOGIES

"Shock and Cold Fronts in the Intracluster Medium: A

Window onto Cosmological Perturbations," by Ben Mathiesen, Stanford University. 1:30 p.m. Bldg. 211, room 227 (badge required). Contacts: Dennis McNabb, 3-0749, or Pat Smith, 2-0920.

The deadline for the next Technical Meeting Calendar is noon, Wednesday.

Send your input to tmc-submit@llnl.gov. For information on electronic mail or the newsgroup llnl.meeting, contact the registrar at registrar@llnl.gov.

NEWS OF NOTE



Women's Association helps employees hit the books

By Sheri Byrd

NEWSLINE STAFF WRITER

The Lab Women's Association (LLLWA) presented its annual scholarship awards Thursday to Lab employees pursuing their formal education concurrently with their careers.

In opening remarks, LLLWA vice president Marina Gonzalez recognized Joni Schuld's work as chair of the scholarship committee for 10 years. Schuld explained that the funds from the scholarships come from LLLWA membership dues, fundraisers, donations and the Lab Affirmative Action and Diversity Program.

Past scholarship recipient Ann Horn, an administrative specialist in Computations, inspired this year's winners with her story of determination as she endured multiple personal crises while still pursuing her bachelor of science degree in organizational behavior from the University of San Francisco. "Stay focused, and you will reach your goal," she assured them.

Dona Crawford, associate director for Computation, related her own story of studying for a second master's degree while employed full-time with Sandia National Laboratories.

"Lifelong learning is not always easy," said Crawford. "Sometimes it hurts, but the rewards are tremendous."

The nine-member scholarship committee evaluated each application on the basis of the employee's educational history, stated goals and objectives, as well as a personal interview. Long-time committee member Carol Gerich emphasized the Lab's ongoing commitment to employ-



JULIE KORHUMMEL/NEWSLINE

Lab Women's Association 2002 scholarship recipients (from left): Carol Lamee, Chelle Clements, Deborah Mulvey, Julie La Rosa, Dona Crawford (presenter), Cary Gellner, Cheryl Stockton, Sharon Howard, Lynn Yamagata, Chinyere Duru, Paula Foerschler and Paul Anderson.

ee education.

Paul Anderson was the \$650 Luisa Hansen Award scholarship recipient, honoring technical achievement and volunteerism. Anderson is a mechanical technician with the Environmental Protection Department, working toward a bachelor's degree in systems engineering at Las Positas College, with future transfer to UC Berkeley.

Chelle Clements, \$650 scholarship winner, is a senior science technologist with B Division, who is pursuing a master's degree in information systems at the University of San Francisco, and will be graduating in May with a 4.0 grade point average.

Cheryl Stockton was awarded the \$650 Dora Storkovich Memorial Scholarship, recognizing technological and management achievements and goals. Stockton is an administrator with Defense & Nuclear Technologies, working

toward a bachelor's degree in organizational behavior at the University of San Francisco.

Lynn Yamagata received the \$650 Pat Campbell Memorial Scholarship, honoring academics and community outreach. Yamagata is a systems analyst in Finance, and is pursuing an associate's degree in business at Diablo Valley College.

Winners of \$450 scholarships are Paula Foerschler, an associate administrator with the Controller's Office, who is working toward a bachelor's degree in organizational behavior at the University of San Francisco; Cary Gellner, an associate administrator with Chemistry & Material Science, who is pursuing an associate's degree in business from San Joaquin Delta College; Carol Lamee, a service operations division leader with Telecommunications & Site Utilities, who is working toward an associate's degree in liberal arts and sciences from Las Positas College; and Deborah Mulvey, an administrator with Defense & Nuclear Technologies, who is working toward a bachelor's degree in organizational behavior from the University of San Francisco.

The recipients of \$350 scholarships are Sharon Howard, a principal resource analyst with NAI, working toward a bachelor's degree in organizational behavior at the University of San Francisco; and Julie La Rosa, a resource analyst with Finance, working toward an associate's degree in specialized business (accounting) from the accredited online Harcourt Learning Direct Center for Degree Studies.

Chinyere Duru, \$200 encouragement award recipient, is a science and engineering technical scholar with Systems & Network Department, working toward an associate's degree in computer programming at Las Positas College.

DOE security inspection to encompass Lab site

Approximately 30 security inspectors from DOE's Office of Independent Oversight and Performance Assurance (OA) will be at the Laboratory from Feb. 4-March 8 to conduct a comprehensive site security inspection.

The inspection is part of a routine process that takes place throughout the DOE complex. The inspectors will have access to the entire Laboratory, so they will be circulating throughout LLNL, visiting various areas, questioning employees, reviewing security documents, and evaluating performance.

Inspectors will be evaluating all aspects of security to include classified matter protection, computer security, physical security, personnel security, protective force alarm responses, and general security planning.

Employees should ensure that security procedures are up to date. Program security representatives are good sources of help in preparing for the inspection. If you don't know who your program security representative is, dial the security hotline at extension 222 or go to their Website at <http://www-security.llnl.gov/SSDPub/rephome.html>

Additional information regarding the composition and philosophy of the DOE inspection organization can be obtained at <http://www.oa.doe.gov/>

ISM streamlined, updated for the new year

The Lab and the National Nuclear Security Administration have approved the first annual update of the Lab's Integrated Safety Management (ISM) Program.

"ISM undergoes an annual update," spokesman Rex Beach said. "In this update we primarily deleted or revised the information in the description that was outdated."

Specific changes made in the 2001 annual update to the ISMS description address:

- DOE comments made upon approval of version 3.0 of the System Description;
- Opportunities for improvement from the ISMS Verification in September 2001;
- Feedback from LLNL employee focus groups and management comments;
- Revision of out-of-date information;
- Commitments that have been completed;



- Preparations for verification that have transitioned to implementation;
- New organizational structure at LLNL and NNSA/Oakland;
- Revised scope to better describe ISM at the Nevada Test Site;
- Expanded discussion of Subject Matter Experts' role in ISM;
- Update of the ongoing LLNL ISM communication plan;

- Description of a more active process for employee involvement.

"While ISM is helping the Lab do safe science, proposed revisions in the Integration Worksheet, safety plans, and the processes for procurement of services are currently being piloted. These proposed changes are intended to streamline ISM to make it more efficient," Beach said.



CLASSIFIED ADS

See complete classified ad listings at
<https://www-ais.llnl.gov/newsline/ads/>

AUTOMOBILES

2000 - Ford Contour SE Sport Sedan V6, 2.51 AT, AC, CC am/fm tilt wheel power steering, door locks and windows 10K miles \$14,000 925-606-9847

1991 - Honda Ex Wagon, loaded, new timing belt, recent smog, good condition 172k miles \$4,800 925-447-4406

1991 - - Pontiac Firebird, black, auto, A/C, CD, 6cyl, 170K mi. Good condition except needs water pump. \$2200/OBO 925-447-3909

1995 - Lumina 7 passenger van. Fully loaded. Good Gas mileage. \$4,995 925-846-1389

1991 - Chev S-10 Pkup/Camp Shell, V-6, A/C, P/B, P/S, 5 Spd Stick, New Tires, New Radiator, AM/FM Cassette, Tilt St/Vhhl, Tow Ball, ~100K Miles - \$2950 925-462-1863

2000 - Honda Civic EX Coupe,40k mi.,excellent condition,5-speed,Silver, Sunroof,CD,Air,Power Windows,Cruise. \$13,000 OBO. 510-338-1199

1960 - El Camino no motor/transmission \$1,500 OBO. 209-862-1549

1988 - Mazda RX7 Convertable, 87k, AC, 5 speed, white w/black top, new tires, great condition. \$4700. 209-835-6065

1989 - HONDA ACCORD special edition, 4 door, tan leather, sun roof, loaded + extras, alloy wheels, great condition. 209-833-1201

2000 - Pontiac Firebird convertible, V6 3.8L, elec cloth top, AC ABS CD ALL PWR warranty \$19400 OBO 925-556-1169

1998 - HONDA Civic LX 4dr, P/L, P/W, cruise, 5 speed, great condition. \$11,000. Call after 6pm. 209-830-7978

1991 Ford Probe, rebuilt transmission, 4 new tires, runs good, 122K miles, needs some body work \$1800 408-945-0250

1990 - Mazda 626, 4 dr,auto,104k,new timing belt,belts,hoses,brakes and tires,runs exc. paint faided on top,very reliable \$2600.OBO 925-443-4895

1997 - GMC Jimmy SLE 4WD 4D Black AC PS PW Plocks Tilt Cruise AM/FM/CD ABS Pseat PrivGlass Towing RoofRack Alloys 83Mi Never offroad \$9900 obo. 925-513-3538

1973 - Oldsmobile Toronado Classic. One Owner. Always garaged. 142K mi. Excellent condition. Must see to believe. \$2950. 925-447-9969

1992 - Honda Accord LX 2door coupe, 96k, AT, white on blue. Excellent condition.\$7425 925-961-1089

1994 - Ford Explorer, 4x4 Eddie Bauer model, dark blue and tan. Black tube brush guards and steps. Well maintained and looks it. Runs great. 925-443-6777

1999 - JEEP Wrangler 4cl, 2.5L, soft top, Red/Brown, A/T tires, 10cd changer, alarm, 40k miles, great condition, full servicing, \$9,250 obo. 510-336-0401

1998 - Infinity QX4, 37.5K mi., Black w/Tan leather, sunroof, Bose stereo CD-changer, loaded, power everything, manufact. 50K/70K warranty, clean, \$23K obo 925-449-3855

1995 - Cutlas Supreme/excellent

condition. Power doors/windows, Outstanding Pioneer Stereo system. Parked by WestGate \$8500 OBO 925-449-2172

1988 - Nissan Sentra, great commute car in very good condition with new tires! \$2,000. 925-736-1383

1993 - MAZDA MX-6 LS Coupe V-6 Automatic. Fully loaded incl leather, spoiler, ABS, alloy wheels and sun roof. 85K Miles. Excellent condition. Asking \$6,000. 925-449-4959

1996 - VW Jetta GL Sedan 4D 5-speed, AC/PS/TW, AM/FM stereo cassette. 115K Good condition. \$6150 OBO. 925-513-3193

1985 - BMW 4 door smogged and tagged. Good condition. 209-858-0099

1988 - Mercury Sable Wagon. 118K , 20mpg, new tires. Nice interior. Ugly paint. \$950 obo. 209-823-8309

1995 - Buick LaSabre Custom 4DR Sedan with only 27K miles.Very good condition, very comfortable, all accessories. \$5,400. 925-443-6872

1996 - Mustang GT, blue. Good condition. Need to sell, just had baby. Asking \$9K OBO. 209-530-0417

2000 - Grand Prix GTP, lmt. ed. daytona 500 pacecar, super-charged, heads-up display, sunroof, bose stereo, auto, loaded, 13k miles, \$20k 925-455-0418

1976 - Chevy Step side. 450HP. White/blue. New Everything, clean inside and out. good stereo. seller asking only \$7000. 925-216-3505

91 - Chevy 4x4 pickup, silverado, CD, 40w/channel stereo, blue, good tires, bed mat, \$7,500 925-443-8585

1997 - Chevy Blazer, 4WD XLT, white w/grey leather, 85K miles (warranty to 96K) new trans, Loaded, CD, Power Everything. \$13,500 OBO Call Sean. 925-352-5987

1997 - Honda Civic EX, Blk, 60K miles, 2dr, 5spd, 4cyl V-Tech, CD changer, A/C, pwr everthing, mn/rf, keyless/entry/alarm, waranty, much more. \$11,750 obo 925-373-1279

1999 - Ford Escort SE fully loaded A/T, A/C, CD chngr,Pwr everything. 40K mi. White. Like new. Low Blue book \$8455, seller asking \$8000 OBO. 925-447-7897

1989 - Volvo 740 Turbo. Great commuter car. Very clean. 144k miles. \$3990 OBO. 209-833-7257

1998 - Toyota Camry LE beige,69K mi,4cyl,AT,AC,CC, airbags, PL, PW,new timing/drive belts,excellent condition, extended warranty, \$13,500/OBO 925-449-3821

1989 - Honda Accord, grey, 4-door, 5 speed, 125k, runs good, \$1000.00 209-823-8767

1989 - Pontiac Bonneville LE, power door locks & windows, excellent 3.8 liter engine & auto trans, new paint - \$1750 OBO 925-829-1794

1998 - Honda Accord EX V6, Black/grey leather, 78,000 mi. CD, moonroof, security, all power, all maintenance, excel. cond., \$13500. 209-835-6062

1998 - Honda Civic Good Condition \$7100 925-640-7053

1995 - Nissan Maxima GLE, Red/Blk leather, AT, AC, Moon Roof, Alloy wheels, CD player,

70K mi, \$11,000. 925-938-6789

1986 - El Camino V8 Auto, Bucket Seats, Air Shocks, Tilt, Cruise, Bed Mat, Maroon, Center Cap Wheels, Good Tires, 80K Miles \$4800 OBO 925-449-3737

1998 - Jaguar XJ8 Vanden Plas Sedan, 42K, excellent condition, automatic, sunroof, leather, a/c, power everything, stereo/CD changer, pure luxury, \$35,000. 510-208-3266

1989 - Ford Escort 4-Door Hatchback.104k miles. AutoTrans,PwrSteer,A/C. AM/FM/CD Stereo.Maintenace records.\$1200/obo 925-447-0083

1995 - Mercury Tracer 4 Dr., 5 sp, 1.9L, AC, PS, PB, PW, PM, CC, 100K Miles, New Trans, brakes. Dark green, Great Condition. \$3500. 209-239-6402

1966 - Ford Mustang Coupe. Excellent condition. Rebuilt original engine. Many new parts. Fairly new paint and interior. 289 V-8 Automatic. \$6700 925-461-9136

1988 - BMW635csia, 2-dr coupe, silver/gray int, excellent cond. computer, power, sun roof, AT, a/c, cruise control, \$7000, 160,000, mi.,maint. recs. 925-838-7597

1999 - Nissan Quest GXE, Silver color, Fully loaded, Excellent cond., 18K miles, Must sell, asking 16,999 only 209-832-3297

1993 - Jeep Grand Cherokee Laredo, 120K miles, excellent condition, \$5800 OBO 925-447-3677

1997 - Plymouth Grand Voyager SE, 72K miles, just serviced, excellent shape, \$12,000. 925-846-3875

AUTOMOBILE ACCESSORIES

4 stock rims for Dodge Ram, 2 chrome/round nerf bars...\$100 or b/o 209-521-5062

New Chevy Fast Burn Aluminum Cylinder Heads for small block, still in box. \$975.00 OBO. 925-373-1089

15 inch Six bolt Pickup TRUCK WHEELS, steel, 2 for \$30 Livermore 925-447-7070

1988-93 Mustang GT alloy 15x7 wheels, 5 each with 205/65R15 tires, \$100 OBO Joey 925-455-8238

4 Wheels for BMW 3 Series, 1992 on from 1993 325is factory sport package basketweave style, cast aluminum 7X15 ET46, 5 lug 100mm pattern \$125 510-653-1017

Carpet Kit for small size short-bed truck. Excellent condition. \$95.00 obo 925-449-8035

BICYCLES

5-speed Raleigh touring bike in excellent shape. Model Sprite 27, for a woman. Great for collector. \$25 OBO. 925-686-2722

2 Peugeot P8 12-sp bikes. Excellent cond. Touring handle-bars, 27-in wheels. One 23-in frame, one mixtie. \$60 each. 925-837-0421

Girls bike, \$15. 925-454-0877

BOATS

Sea-Doo 17.5 ft - 1999, , twin engines, 4 seater, bimini top, stereo, low hours, w/trailer.

\$11,500.00 925-455-8108

1997 SKI BOAT, MB Sport, BOSS 210, 260 hours, 351cu in engine, drk grn w/gold, \$19,500.00 925-997-5549

ELECTRONIC EQUIPMENT

Nokia phones, 5190, have several \$15.00 each 925-634-0423

Palm-brand leather belt clip case for Palm-III series PDA, new in sealed box. \$10. 925-454-8827

Power Mac G3, 233MHz, 10GB, 160KB, ZIP and DVD drives, two USB ports, and 17inch Apple Multisync Monitor, \$400. 925-294-8365

700mhz PIII system,320MB mem,(2)2-gig scsi drives, CD, floppy, soundblaster, 56k modem, lexmark printer, Win95, no monitor. -- \$350 510-324-2043

Brand new Pentium 4 computer. Never used. 40GB hard drive; 261Mb ram; 15 in. CTX plasma flat screen monitor - built-in audio. \$1200 OBO. 925-980-1895

iMac purple 333MHz 96MB ram 6GB hard disk. Condition as new, includes external 100MB Zip drive. \$475 obo. 510-336-0401

GIVEAWAY

FREE 110 gallon aquarium with stand / small leak that can be repaired / good for reptiles or whatever 925-454-1969

CA Console color TV, 27-inch, circa 1980, works! 925-837-6483

Epson Stylus color (1 ea, Cat # S020191) and black (1 ea, Cat # S020093) printer cartridges. 925-443-7499

Ex-military footlocker 33W x 14H x 17D. 925-484-1319

HOUSEHOLD

Beautyrest King Bed set Firm 1yr old bought from sleep train \$1000. OBO. 925-454-8994

Executive High Back Chair,Black Leather,Excellent Condition \$35.OBO 925-443-4895

Kenmore microwave oven - 1.4 cu ft, solid state, excellent condition. Stand included. 925-447-5144

Dining Room Set, Hutch with glass \$750.00 925-625-9215

Living room sofa and coordinated armchair, green/gold, \$225;almost new colorful loveseat \$175. All like new. 925-447-9969

One large wooden office desk, \$40. One small wooden desk, \$25. 925-454-3396

Bissell 9 amp upright vacuum. Like new. Has on board attachments. Excellent condition. Asking \$50.00 925-449-4959

Jennifer Convertible denim sofa bed & love seat. Both or Sperate. Make an Offer!!! 925-548-3039

MISCELLANEOUS

CHEST FREEZER, 8.4 cu ft, Wards brand, great cond., in Lvrmr, moving, must sell. \$100.00 925-516-9529

Health Rider, \$20 925-828-3295

1/3 krt diamond wedding set. Ideal cut center diamond with

small stones throughout both bands. Purchased for \$2100. Must see, \$600 or b/o. 209-521-5062

Levi Jeans, USED GOOD CONDITION, 5 PAIR, W 33-36, L 32-36. COLORS = 2 BLUE, 1 BRN, 1 GREY, 1 BLK. 925-778-4641

THOMAS KINKADE,Beautifully matted & framed Artist Proof 3/385,Sweetheart Hideaway 1, Perfect gift for Valentines Day or Anniversary \$695. OBO 925-443-4895

Baby/toddler items: F-P activity walker, \$8. Chicco flip n play activity table, \$10. Graco doorway jumper, \$10. Excel. cond., 1/3 retail price. 925-454-0877

Above ground pool-dismantled, 16ft round w/sand filter and pump.3yrs new, new liner is needed, installation available.\$300 bo 925-443-4848

Assorted board games, some like new. Request list by e-mail \$5-\$10 range 925-447-3432

MOTORCYCLES

1987 - yamaha XT350 only 3k miles excellent condition 209-239-6526

1993 - Honda CBR 900RR, Two Brothers pipe, new tires, new chain/sprockets, DynoJet jet kit, \$4500.00 925-997-5549

MUSIC INSTRUMENTS

Baby Grand piano (Cable) \$ 800 209-239-6526

Amplifier for electric guitar,older model Mustang 65. Works great,excellent condition.\$200.00 firm. 925-447-6942

Parlor Grand Piano, country French style, pecan \$10,000 call after 6pm. 209-892-3241

Snare drum with stand. Mapex brand, maple snare,5.5x14,transparent midnight black, with clutch stand. New in box. \$225 firm 925-243-1373

PETS & SUPPLIES

Free cat to good home. Please call 925-516-9293. 925-516-9293

Quail, Button, 4 months old, 6 available. \$5 each or all 6 for \$20. 925-776-5612

Free roosters. Young, handsome, docile. One Barred Rock and one Buff Orphington. 925-443-1547

Outside pen for dog or similar pet, 8 ft x 12 ft by 6 ft high, with door. Commercial steel frame and cyclone fence construction. In good condition. 925-398-0545

Large Dog Cage new. Purchased for \$110 selling for \$65 925-449-3821

Maltese. Male, AKC, 2 yrs old. Free to good home. 925-642-5339

10 month Registered German Shorthair Pointer, Liver/Ticked. FCH Snappy Tom Bloodlines. Started Obedience Training. 209-869-5362

Blue Front Amazon-hand tame & talks. Cage plus toys and supplies. \$400.00. 925-294-8632

Horse Boarding - 2 ac. pvt. Pleasanton orchard pasture, shelters, cyclone fences, \$150 per month includes grass hay and alfalfa twice a day. 925-443-6531

“We maintain stock in over 130 areas throughout the Lab and Site 300.”

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Let Shop Stock be the answer to your supply needs, including “nuts and bolts” hardware, office supplies, lab equipment and electronic components. We’ll send a person to your area to stock those fast moving, low-value items.

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For further information or a brief presentation in your area, call Ron Young, team leader for Shop Stock, 4-4100 or pager 5-5276.

INTERNAL TRANSFER OPPORTUNITIES

Tag	Requisition	Classification	Title	Organization
PM	3443	110	Management assoc./deputy mgr.	Procurement & Materiel
PT	3451	150.1	Resource analyst	Physics & Advanced Technologies
CO	3460	196	Executive staff member	Computation
EZ	3505	200	Scientist/engineer	Energy & Environment Directorate
NA	3256	200	Scientist/engineer	NAI
NA	3402	200	Scientist/engineer	NAI
BS	3499	225	Biomedical scientist	Biology & Biotechnology Research
BS	3501	225	Biomedical scientist	Biology & Biotechnology Research
NA	3403	295	Political scientist	NAI
NA	3424	302.1	Scientific associate	NAI
ME	3474	337.1/339.2	Engineering technical assoc.	Mechanical Engineering
ME	3441	339.2	Senior engineering associate	Mechanical Engineering
AI	3317	405.3	Administrative specialist III	AIS
NF	3283	405.3	Administrative specialist III	National Ignition Facility Programs
BS	3436	405.4	Administrative specialist IV	Biology & Biotechnology Research
CO	3522	405.4	Administrative specialist IV	Integrated Computing & Communications
DT	3539	405.4	Administrative specialist IV	Defense & Nuclear Technologies
FI	3465	451.2	Senior accounting assistant	Finance Department
PM	3514	462.2	Senior material handler	Procurement & Materiel Department
HC	2584	707.1	Administrative/serv. scholar	Hazards Control

More information on these job postings as well as those at other UC sites and outside organizations is available through the World Wide Web. Go to the Lab’s internal home page, click on “Employee Resources,” then click on “Jobs.”

See complete classified ad listings at <https://www-ais.llnl.gov/newsline/ads/>

CLASSIFIED ADS



RECREATION EQUIPMENT

Karate Sparring Gear. Two sets of youth protective equipment: Helmet, mitts, and feet. \$25 per set. 925-443-1390

Child size ski boots, Size 4, Salomon, rear entry. \$20 415-928-4469

Stair stepper, Voit, \$30 925-828-3295

Snowboarding jackets and pants, size 14, two sets, Body Glove 1 boys and 1 girls, \$40.00 each 925-634-0423

Weider Home Gym.Model 8510 Great condition.\$150.00 OBO. Pg. 02734. 209-824-0227

Small Woman - dive gear - suits, tank, BC, everything, excellent condition. 925-828-2451

RIDESHARING

Express your commute, call 2-RIDE for more information or visit <http://www-r.llnl.gov/tsmp>.

PATTERSON - Vanpool has seats available. Work hours 7:30-4:00. Call 209-892-2118, ext. 2-9502

DANVILLE - Camino Tassajara & Crew canyon (near Blackhawk) - 2 drivers/riders seeking additional members to carpool from south Danville area. 8:00 - 4:45 925-736-9441, ext. 2-1039

Orinda-Moraga-Lafayette - Lamorinda carpool needs 4th rider/driver. Lab hours 8:15am-5pm. Departs/returns to St. Stephens and Highway 24 in Orinda. 925-253-0498, ext. 2-9823

TRACY - Carpool looking for passengers. Hrs 8-4:45. 209-833-1201, ext. 2-9955

Modesto - Luxury van. 14 psgr. 8 - 4:30 schedule. \$110/mo. plus

other \$\$ off for transit pretax and if you want to share driving. 209-521-9047, ext. 2-5177

Sacramento - Moving to Sacramento area in February. Looking to join vanpool/carpool. Call if you have a spot. 209-823-8309, ext. 2-3399

Modesto - 8-4:30 luxury van leaves from Vintage Fair Mall with drop off and pickup near office on site. 209-545-3866, ext. 3-8056

SERVICES

FLOORING - Carpet, linoleum, wood and wood laminates. Reasonable rates, reliable, 27 years in the business. Licensed/bonded/insured 925-516-9510

SHARED HOUSING

Livermore-nice room for rent, private bath, kitchen/laundry privileges. Must love dogs. \$500 + some util. 925-243-9316

Livermore - Furnished 1 bedroom studio, Springtown. Non smoker, no pets. \$600/mo plus utilities. 925-455-8108

Livermore - Room to Rent \$675-\$800. New home in Vineyards. Walk to Lab. High Speed Internet, Cable, Lrg Kitchen w/Granite, Laundry Rm. 925-449-1545

Ceres - Room for rent in new home, \$450.00 mo + dep., incl util,kitchen priv., quiet area,furnishings avail.,willing to carpool together. 209-537-4614

TRUCKS & TRAILERS

1998 - Motorhome, Class C,

Itasca Spirit, 22 ft., 454 GM Vortex eng., gen., AC, clean and excellent cond., 37 K miles, \$25K o.b.o. 925-447-7780

1995 - Ford Explorer, Excellent condition. Must see to appreciate. New tires, Tow package, all power. Cassette. Privacy glass. Freeway miles. \$7,000.00 OBO 510-537-7222

1988 - Chev truck with shell. \$2500.00 OBO 925-516-9877

1983 - 27 foot southwind class A motor home 60K mile \$9500 209-239-6526

VACATION RENTALS

Maui, HI - Kahana Reef oceanfront 1BR/1BA condominium. Beautiful two-island view, oceanside pool, and BBQs. Low LLNL rates for year-round reservations. 925-449-0761

SOUTH LAKE TAHOE - 3 Bedroom 2 bath Chalet, newly remodeled, nicely furnished,all amenities,close to all skiing, Reserve Now! 209-599-4644

Soda Springs/Donner Summit, Classic A frame, 2BR/1BA+Loft, sleeps 8 Walk to Royal Gorge 5 min to Sugar Bowl \$250 wknd,\$550/week call for availability 209-836-3481

WANTED

Livermore - Wanted: Part-time sleeping quarters near the Lab. Commuting nightshifter needs no kitchen, no laundry, no bath, N/S. Call evenings. 925-224-9560

Wanted - Metal pipe panel

fencing for horses. Reasonable condition; reasonable price. 925-447-7912

Please call if you can donate a portable piano keyboard for an underprivileged children music project. 925-447-2076

I am looking for drum kit (acoustic or electronic) for a beginning student. Please contact me at 925-648-5113

Wanted: Wood -- almond or oak -- already split at reasonable price. 925-837-0863

Wanted, Queen size box springs 925-455-9414

Stained glass supplies/tools wanted. 209-599-8422

Wood bookcase for den. Desire 4 feet wide by 6 feet

high. Will consider other sizes. 925-449-9078

Rims and tires from a GMC Truck or GMC Yukon. 1999 or newer. 209-599-0922

Used TI-83 calculator in working condition. If you do not want to sell, I would be willing to negotiate a price to borrow it for a semester. 209-825-8092

Gardener-for trimming and pruning,etc.,once or twice a month.Byron area. 925-516-7884

Part-time caregiver for woman with begining stages of Alzheimers. Hours will vary, depending on my travel schedule. Call between 4:30-6:00pm. 925-443-0367

Guidelines

Newsline is not responsible for any errors contained in the classified ads. It is up to the employee to proofread his or her ad to make sure it contains the correct data, including the phone number.

Employees are reminded that only car- and vanpool ads may contain Lab extensions. E-mail addresses are not allowed.

Due to space limitations, *Newsline* cannot run ads that are submitted in all capital letters. “Personals” ads are not permitted either.

Employees may submit one ad per category, but may not include the same ad in more than one category.

Ads may only be submitted through the Employee Ads Web Services site <https://www-ais.llnl.gov/newsline/ads/>

Employees are responsible for ensuring the content of their ad is accurate.



THE BACK PAGE

BART

Continued from page 1

The third phase will be to purchase a simulator or have one specially designed to meet BART's needs. BART estimates that a full-scale simulator will cost between \$500,000 and \$3 million.

"We need to be on the cutting edge of technology," said Cal Coleman, BART's manager of operations, training and development. "Simulators are used for planes, trains and trucks. It's time for rapid transit to join the ranks. We have to create scenarios that you can't do in real life and have them practice it many times."

As trains have gotten more technologically advanced, the training time for operators has nearly doubled, Coleman said. In 1987, training took nine weeks; today it takes 15 weeks and that is still not enough time, he added. In addition, training time on the trains has been reduced because of increased service schedules.

"When you are standing on the platform and waiting for your chauffeured, \$50 million limousine, you have the expectation that you will get to your destination safely," Coleman said. "We train the 'oops' out of our train



operators."

Lab engineers are serving as technical advisers for the project. Peggy Poggio, who is the principal investigator for the Lab, is working with Bill Lennon and Fred Strange to advise BART as it selects a vendor to develop a full-scale simulator. Karen Kiernan of the Public Affairs Office manages the memorandum of agreement for the Lab.

"We are impartial, but highly qualified technical advisers," said Laura Gilliom, director of the Lab's University Relations Program. "That's a piece of the role we played in this project. We do it in the spirit of public service."

Eliza Baca (left), demonstrates BART's new computer training module for train operators for the Lab's Don Meeker, acting deputy associate director of Engineering, and Laura Gilliom, director of the University Relations Program.

ELIZABETH CAMPOS RAJS/NEWSLINE

AD

Continued from page 1

AD, Tarter also took the opportunity to thank Jens Mahler, who served as acting associate director for Engineering following the departure of former AD Spiros Dimolitsas in November to take a position at Georgetown University in Washington, D.C.

"On very short notice, Jens has done an excellent job of keeping the directorate running smoothly and ensuring the programmatic needs of the Laboratory are met. I want to thank him for his leadership and his continuing commitment both to the directorate and the Laboratory." Mahler also served on the selection committee to find the new Engineering AD.

Mara joined LLNL in 1971 as a materials scientist/welding engineer in the Chemistry Department. In 1980, he became the Metals and Ceramics Division leader. In 1983, Mara joined Engineering and the Materials Fabrication Division, where he served as deputy division leader, helping to direct 450 scientific and technical staff members in support of the Lab's fabrication efforts.

He joined the Lab's Nuclear Test Engineering Division in 1985 as division leader and two years later he was named the Test Engineering Program leader for R Program. In 1989, Mara was selected as the Nevada Program Leader — directing the field and engineering resources to support the execution of underground nuclear tests and experiments at the Nevada Test Site.

In 1998, Mara led both the Weaponization Program and Defense Technologies Engineering Division. In this position, he was directly responsible for the engineering elements of the Lab's role in NNSA's Stockpile Stewardship Program. Since March 2001, Mara has been working in the National Ignition Facility Program Directorate as NIF principal deputy project manager.

Mara graduated from Ohio State University with bachelor's and master's of science degrees in welding engineering. A registered professional engineer, Mara is also the author of several publications and patents.

A resident of Fremont since 1980, Mara is married to Beth Bayert Mara, an elementary school teacher. They have three children, Nathan, Andrew and Kathryn.

BIOTERRORISM

Continued from page 1

decisions in this new age of biological terror," said Annice Wagner, chief judge of the Court of Appeals in Washington, D.C. and the president of the Conference of Chief Justices.

The conference co-sponsored the gathering, along with the Laboratory and the Einstein Institute of Science, Health and the Courts. While the conference was the third meeting in a series convened since Sept. 11, the Laboratory has long served in an advisory capacity to various justices on a number of scientific issues, from DNA evidence to the genetics of behavior, and molecular biology to biotechnologies.

"We are fortunate a Lab like Livermore can provide this level of expertise to the judicial system," said Franklin Zweig, president of the Maryland-based Einstein Institute. EINSHAC, as it is commonly known, works with judges, courts and court-related personnel to "translate" science information that may be used in criminal and civil trials.

Wagner said the anthrax scare last fall in Washington has been something of a wake-up call for the courts. Her own courtroom was shut down after the Sept. 11 terrorist attacks, and she offered that many of her employees have endured additional stress since anthrax was found in congressional offices, the post office and even the Supreme Court.

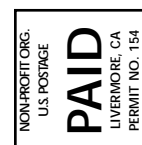
"You can't imagine the fear in employees when even something like a pack of Sweet 'N Low gets spilled on a counter," she said.

"We all wish we did not have to do this but I think that in today's world we have to be smart and prepare for what we hope never comes," said Thomas Moyer, chief justice of the Ohio State Supreme Court.

"Judges need to understand the nature of scientific data in order to apply laws to it and rule on science-related issues that come up in the courts," added Ming Chin, a California Supreme Court Justice who attended the conference.

That point was driven home in presentations throughout the conference, from opening remarks by Director Bruce Tarter, in which he called for the development of a "biological literacy," as well as Saturday's presentation by David B. Mallott, who spoke on the psychological effects of bioterrorism. Courtrooms must develop programs that will connect with people who have never gone beyond high school biology, said Mallott, a psychiatry professor and the associate dean for medical education at the University of Maryland.

Moyer said conferences such as that at Livermore go a long way toward solving some of the problems. "This presents information to help justices determine what is legitimate and what is not," he said. "The bottom line is that everyone will need to gain a firmer understanding of the science of bio-terrorism if they expect to conduct business in the courtrooms of the future."



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